

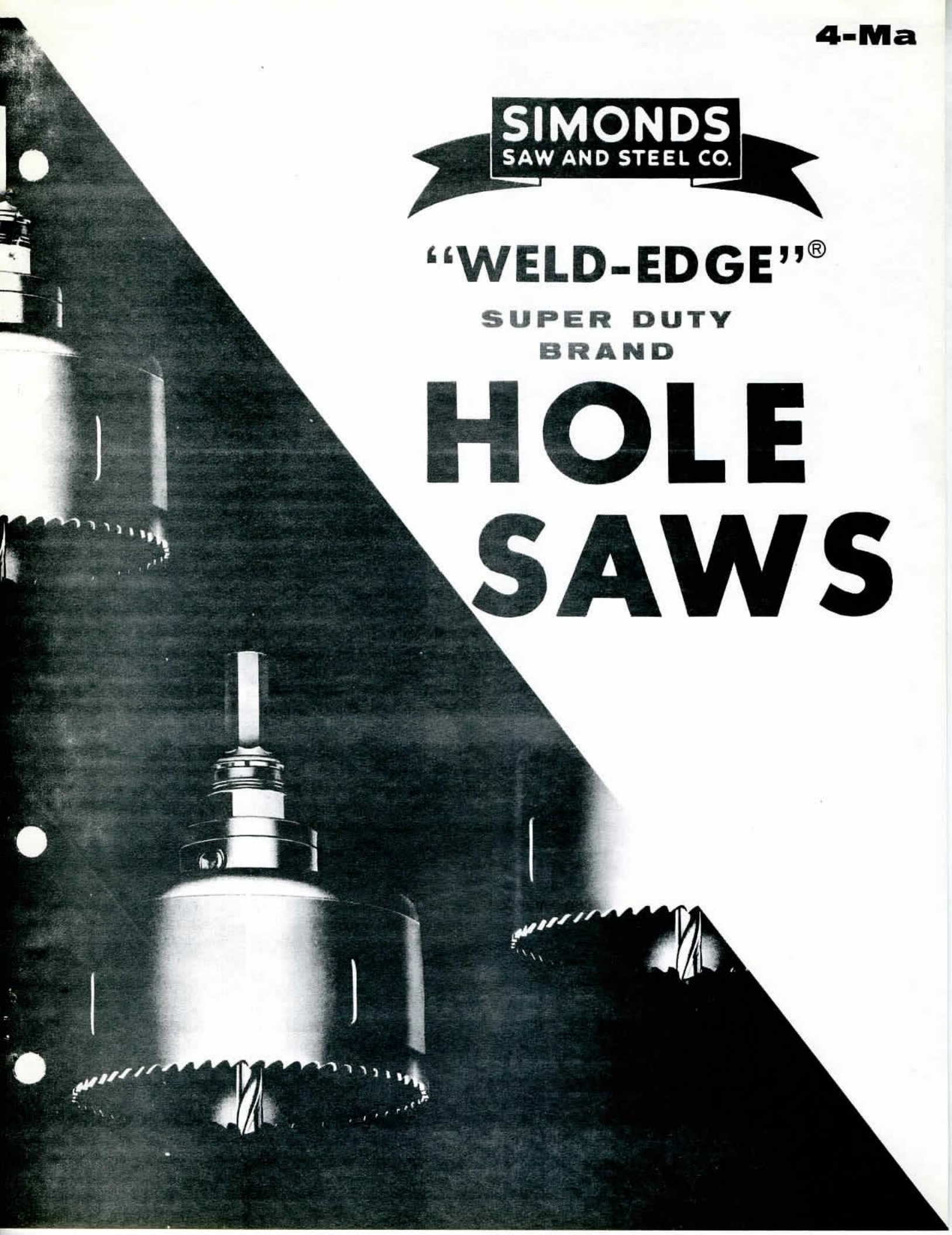
4-Ma

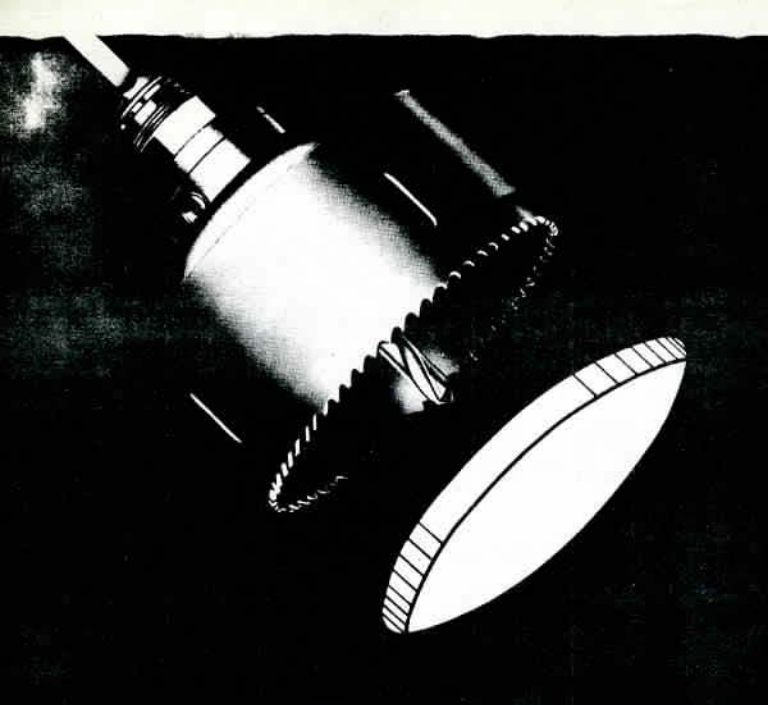
SIMONDS
SAW AND STEEL CO.

“WELD-EDGE”[®]

**SUPER DUTY
BRAND**

HOLE SAWS





SIMONDS
SAW AND STEEL CO.

"WELD-EDGE"®
SUPER DUTY
BRAND

HOLE
SAWS

ALL THE MOST WANTED SIZES

Simonds "Weld-Edge" Shatterproof Hole Saws are rugged cutting tools designed to cut accurate holes cleanly and efficiently in machineable materials up to 1 1/8" thick. Ranging in size from 5/16" to 6" diameter, they can be used in portable electric or air tools, drill presses, lathes, boring mills, milling machines or any other machine tool which has a rotating spindle that can be operated at the correct speed for the size of hole saw to be used and type of material to be cut.

They are made with a wear-resistant, fast cutting high speed steel cutting edge, permanently bonded to an extra tough alloy steel body by an electric welding process. The blade is rolled to the correct diameter and strongly joined along the seam for maximum strength and concentricity. It is then welded to the outside diameter of a tough, resilient steel cap making the diameter of the cut slightly larger than the diameter of the cap, which allows the saw to follow completely through its own hole. The depth of cut of this "follow through" design is limited only by the ability of the operator to remove the cores when drilling a deep hole through stacked or layers of material. The knock-out slots permit easy removal of cores. Furnished in standard stock sizes as shown in table on opposite page.

FOR ALL MACHINABLE MATERIALS

Mechanics, maintenance men, electricians, plumbers, construction workers and installation men use hole saws for numerous applications such as:

- Cutting holes for pipe or electrical conduits.
- Installing pipes and valves in fabricated tanks.
- Installing vents for clothes dryers.
- Cutting holes for the installation of running lights on tank trucks.
- Installing air-conditioning units in automobiles.

Simonds Hole Saws can be used for cutting steel pipe, cast iron pipe, steel plates, aluminum, copper, brass, stainless steel, wood or plastics.

RECOMMENDED CUTTING SPEED - R.P.M.'s

Size Inches	Mild Steel	Tool and Stainless Steels	Cast Iron	Brass	Aluminum
5/16	580	300	400	790	900
3/8	550	275	365	730	825
1/2	500	250	330	665	750
5/8	460	230	300	600	690
3/4	425	210	280	560	635
7/8	390	195	260	520	585
1 1/8	370	185	245	495	555
1	350	175	235	470	525
1 1/8	325	160	215	435	480
1 1/4	300	150	200	400	450
1 3/8	285	145	190	380	425
1 1/2	275	140	180	360	410
1 5/8	260	135	175	345	390
1 3/4	250	125	165	330	375
1 7/8	240	120	160	315	360
2	230	115	150	300	345
2 1/8	220	110	145	290	330
2 1/4	210	105	140	280	315
2 3/8	205	100	135	270	305
2 1/2	195	95	130	260	295
2 5/8	190	95	125	250	285
2 3/4	180	90	120	240	270
2	170	85	115	230	255
2 1/8	165	80	110	220	245
2 1/4	160	80	105	210	240
2 3/8	150	75	100	200	225
2 1/2	145	75	100	195	225
2 5/8	140	70	95	190	220
2 3/4	135	65	90	180	205
2 7/8	130	65	85	175	200
3	130	65	85	170	195
3 1/8	125	60	80	160	185
3 1/4	120	60	80	160	180
3 3/8	115	55	75	150	170
3 1/2	110	55	70	140	165
3 5/8	105	50	70	140	155
3 3/4	100	50	65	130	150
3 7/8	95	45	65	130	145
4	95	45	60	120	140
4 1/8	90	45	60	120	135
4 1/4	90	45	60	120	135
4 3/8	85	40	55	110	130
4 1/2	80	40	55	110	120
4 5/8	80	40	50	100	120
4 3/4	75	35	50	100	105
4 7/8	70	35	45	95	95
5	65	30	45	90	90
5 1/8	60	25	45	85	85
5 1/4	60	25	40	85	85
5 3/8	55	25	35	80	80
6	55	25	35	75	75

STANDARD STOCK HOLE SAW SIZES (Without Arbors)

Catalog Number	Saw Diameter (Inches)	Threaded Hole in Saw Cap	For Use With Arbor Numbers	Use for Pipe Tap, Pipe Size	Use for Pipe Entrance, Pipe Size	Approx. Legal Shpg. Weight - Lbs./100
36-00090	5/16	1/2"-20	36-01001 - 36-01005 - 36-01010	3/8	1/4	12.5
36-00100	5/8	1/2"-20		—	—	12.5
36-00110	1 1/16	1/2"-20		—	—	12.5
36-00120	3/4	1/2"-20		1/2	3/8	12.5
36-00130	13/16	1/2"-20		—	—	12.5
36-00140	7/8	1/2"-20		—	1/2	12.5
36-00150	15/16	1/2"-20		3/4	—	12.5
36-00160	1	1/2"-20		—	—	12.5
36-00170	1 1/16	1/2"-20		—	—	18.8
36-00180	1 1/8	1/2"-20		—	3/4	18.8
36-00190	1 3/16	1/2"-20		1	—	18.8
36-00200	1 1/4	5/8"-18	36-01015 - 36-01020 - 36-01030	—	—	18.8
36-00201	1 1/4	1/2"-20		—	—	18.8
36-00210	1 5/16	5/8"-18		—	—	18.8
36-00220	1 3/8	5/8"-18		—	1	25.0
36-00221	1 3/8	1/2"-20		—	—	25.0
36-00230	1 7/16	5/8"-18		—	—	25.0
36-00240	1 1/2	5/8"-18		1 1/4	—	25.0
36-00241	1 1/2	1/2"-20		—	—	25.0
36-00250	1 9/16	5/8"-18		—	—	25.0
36-00260	1 5/8	5/8"-18		—	—	25.0
36-00270	1 11/16	5/8"-18	36-01020 - 36-01030	—	—	31.3
36-00280	1 3/4	5/8"-18		1 1/2	1 1/4	31.3
36-00290	1 13/16	5/8"-18		—	—	31.3
36-00300	1 7/8	5/8"-18		—	—	31.3
36-00320	2	5/8"-18		—	1 1/2	31.3
36-00330	2 1/16	5/8"-18		—	—	31.3
36-00340	2 1/8	5/8"-18	36-01020 - 36-01030	—	—	37.5
36-00360	2 1/4	5/8"-18		2	—	37.5
36-00370	2 5/16	5/8"-18		—	—	37.5
36-00380	2 3/8	5/8"-18		—	—	37.5
36-00400	2 1/2	5/8"-18		—	2	43.8
36-00410	2 9/16	5/8"-18		—	—	43.8
36-00420	2 5/8	5/8"-18		2 1/2	—	43.8
36-00440	2 3/4	5/8"-18		—	—	50.0
36-00460	2 7/8	5/8"-18		—	—	50.0
36-00480	3	5/8"-18		—	2 1/2	50.0
36-00500	3 1/8	5/8"-18	36-01020 - 36-01030 - 36-01040	—	—	60
36-00520	3 1/4	5/8"-18		3	—	63
36-00540	3 3/8	5/8"-18		—	—	66.5
36-00560	3 1/2	5/8"-18		—	—	70.5
36-00580	3 5/8	5/8"-18		—	3	73.5
36-00600	3 3/4	5/8"-18		3 1/2	—	76
36-00620	3 7/8	5/8"-18		—	—	79.5
36-00640	4	5/8"-18		—	—	82.5
36-00660	4 1/8	5/8"-18		—	3 1/2	85
36-00680	4 1/4	5/8"-18		4	—	88.5
36-00700	4 3/8	5/8"-18	36-01030 - 36-01040	—	—	92.5
36-00720	4 1/2	5/8"-18		—	4	97
36-00760	4 3/4	5/8"-18		4 1/2	—	120
36-00800	5	5/8"-18		—	—	147
36-00840	5 1/4	5/8"-18		5	—	160
36-00880	5 1/2	5/8"-18		—	—	172
36-00920	5 3/4	5/8"-18		—	5	186
36-00960	6	5/8"-18		—	—	200

* For use with Arbor Numbers 36-01001, 36-01005 and 36-01010 only.

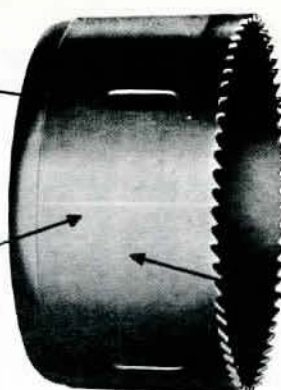
SIMONDS

SUPER DUTY
BRAND

HOLE SAWS

Slots permit easy removal
of cores.

Strongly joined seam assures
maximum strength and
concentricity.



High speed tool steel cutting
edge for rapid cutting. All
saws 6 teeth per inch.

Tough steel backing absorbs
shock.

ARBORS - ADAPTORS - EXTENSIONS



Pilot Pin*
36-01530

Drill No.
36-01515

Drill No.
36-01510

Drill No.
36-01510

Drill No.
36-01510

Pilot Pin**
36-01540

36-01001
36-01005

36-01010

36-01015

36-01020
36-01030

* For use with Arbors 36-01001 and 36-01005

** For use with Arbors 36-01010, 36-01015, 36-01020 and 36-01030



Pilot Pin
36-01520

36-01040



36-01050

Simonds' pin-drive arbor design provides a positive floating drive arrangement to the saw which assures uniform cutting and eliminates the possibility of stripping threads in heavy cutting. This pin-drive also makes it easier to remove the saw after heavy cutting since the saw can not tighten up on the arbor threads. Heat treated for extra strength and longer life, these arbors have straight hexagonal shape shanks for a positive non-slip drive when used in jaw chucks. The High Speed Steel pilot drills have a flat spot on the shank for equally positive driving. Furnished in standard stock sizes as shown in tables below.

ARBORS - COMPLETE WITH 1/4" HIGH SPEED STEEL PILOT DRILLS

Catalog Number	Chuck or Adaptor Diameter	Shank Size	Fits Saws (See List)	Weight Per 100
36-01001	1/4"	1/4" Hex	1/2" - 20 Thread	17.5 lbs.
36-01005	3/8"	1 1/2" Hex	1/2" - 20 Thread	19.4 lbs.
36-01010	1/2"	3/8" Hex	1/2" - 20 Thread	19.0 lbs.
36-01015	1/2"	3/8" Hex	3/8" - 18 Thread	19.0 lbs.
36-01020	1/2"	7/8" Hex	3/8" - 18 Thread	53.0 lbs.
36-01030	3/4"	5/8" Hex	5/8" - 18 Thread	55.0 lbs.
36-01040	# 3 Morse Taper	# 3 Morse Taper	3" to 6" Diam.	400 lbs.

Catalog Number	Chuck or Adaptor Diameter		Weight Per 100
36-01050	1/2"	12" Extension Fits All 3/8" Shanks	88 lbs.
36-01510		1/4" High Speed Steel Pilot Drill (Packed 10 to a box)	5 lb.
36-01515		1/4" High Speed Steel Short Flute Pilot Drill (Packed 10 to a box)	4.0 lbs.
36-01520		3/8" Pilot Pin	7 lbs.
36-01530		1/4" High Speed Steel Pilot Pin - 3" Long (Packed 10 to a box)	4.6 lbs.
36-01540		1/4" High Speed Steel Pilot Pin - 4" Long (Packed 10 to a box)	5.9 lbs.

MORSE TAPER ADAPTORS

Catalog Number	Morse Taper	For Arbor	Weight Per 100
36-01060	2	3/8" Hex	20 lbs.
36-01070	3	7/8" Hex	70 lbs.
36-01080	3	5/8" Hex	60 lbs.



SIMONDS SAW AND STEEL CO., FITCHBURG, MASS.